

Ageing and Aged Care publication list November 2020

(MACH Care of the Ageing Committee members' **bolded**)

1. Microstructural degeneration and cerebrovascular risk burden underlying executive dysfunction after stroke. *Scientific Reports, Volume 10, Issue 1, 1 December 2020, Article number 17911.*
Published online November 2020.

Veldsman M., Werden E., Egorova N., Khlif M.S., **Brodtmann A.**

About the Research: Executive dysfunction affects 40% of stroke patients, but is poorly predicted by characteristics of the stroke itself. Stroke typically occurs on a background of cerebrovascular burden, which impacts cognition and brain network structural integrity. We used structural equation modelling to investigate whether measures of white matter microstructural integrity (fractional anisotropy and mean diffusivity) and cerebrovascular risk factors better explain executive dysfunction than markers of stroke severity.

[Link to Publication](#)

2. Reduced striatal vesicular monoamine transporter 2 in REM sleep behavior disorder: imaging prodromal parkinsonism. *Scientific Reports, Volume 10, Issue 1, 1 December 2020, Article number 17631.* *Published online November 2020.*

Beauchamp L.C., Villemagne V.L., Finkelstein D.I., Doré V., **Bush A.I.**, Barnham K.J., Rowe C.C.

About the Research: Motor deficits in parkinsonism are caused by degeneration of dopaminergic nigral neurons. The success of disease-modifying therapies relies on early detection of the underlying pathological process, leading to early interventions in the disease phenotype.

[Link to Publication](#)

3. Effects of protein supplementation on muscle wasting disorders: A brief update of the evidence. *Australasian Journal on Ageing, Volume 39, Issue S2, 1 October 2020, Pages 3-10*

Kirk B., Iuliano S., Daly R.M., **Duque G.**

About the Research: To examine the effects of protein supplementation on muscle mass, strength and function in individuals at risk of muscle wasting disorders.

[Link to Publication](#)

4. CuATSM PET to diagnose age-related diseases: a systematic literature review. *Clinical and Translational Imaging, 2020. Published online November 2020.*

Majerníková N., Yu J.J., **Maier A.B.**

About the Research: Cu(II)-diacetyl-bis(N4-methylthiosemicarbazone) positron emission tomography (CuATSM PET) is a non-invasive imaging technique that can be used to detect hypoxia and inform prognosis in cancer. Hypoxia and oxidative stress are also hallmarks of various age-related diseases. Whether CuATSM PET has a role in the evaluation of hypoxia and oxidative stress in age-related diseases has yet to be established. The aim of this systematic review is to evaluate the utility of CuATSM PET in the diagnosis and management of age-related diseases.

[Link to Publication](#)

5. Iron and Ferroptosis as Therapeutic Targets in Alzheimer's Disease. *Neurotherapeutics, 2020. Published online November 2020.*

Gleason A., **Bush A.I.**

About the Research: Alzheimer's disease (AD), one of the most common neurodegenerative diseases worldwide, has a devastating personal, familial, and societal impact. In spite of profound investment and effort, numerous clinical trials targeting amyloid- β , which is thought to have a causative role in the disease, have not yielded any clinically meaningful success to date. Iron is an essential cofactor in many physiological processes in the brain. An extensive body of work links iron dyshomeostasis with multiple aspects of the pathophysiology of AD. In particular, regional iron load appears to be a risk factor for more rapid cognitive decline. Existing iron-chelating agents have been in use for decades for other indications, and there are preliminary data that some of these could be effective in AD. Many novel iron-chelating compounds are under development, some with in vivo data showing potential Alzheimer's disease-modifying properties. This heretofore underexplored therapeutic class has considerable promise and could yield much-needed agents that slow neurodegeneration in AD.

[Link to publication](#)

6. S-Adenosylmethionine Rescues Cognitive Deficits in the rTg4510 Animal Model by Stabilizing Protein Phosphatase 2A and Reducing Phosphorylated Tau. *Journal of Alzheimer's Disease. Volume 77, Issue 4, 2020, Pages 1705-1715.*

Beauchamp L.C., Liu X.M., Sedjahtera A., Bogeski M., Vella L.J., **Bush A.I.**, Adlard P.A., Barnham K.J.

About the Research: Alterations in the methionine cycle and abnormal tau phosphorylation are implicated in many neurodegenerative diseases, including Alzheimer's disease and frontotemporal dementia.

[Link to Publication](#)

7. Drug use and driving behaviors among drivers with and without alcohol-related infractions. *Trends in Psychiatry and Psychotherapy, Volume 42, Issue 3, July-September 2020, Pages 230-238.*

Scherer J.N., Schuch J.B., Rocha M.R., Assunção V., Silvestrin R.B., Roglio V.S., Limberger R.P., **Sousa T.R.V.**, Pechansky F.

About the Research: Introduction: Brazil is one of the countries with the highest rates of alcohol-related traffic infractions, but little is known about the profile of the drivers who commit them. Identifying the characteristics of impaired drivers is essential for planning preventive actions. Objective: To compare drug use and driving behavior profiles of drivers with and without alcohol-related infractions.

[Link to Publication](#)

8. Exercise intervenTion outdoor project in the cOmmunity for older people – results from the ENJOY Seniors Exercise Park project translation research in the community. *BMC Geriatrics, Volume 20, Issue 1, 1 December 2020, Article number 446. Published online November 2020.*

Levinger P., Panisset M., Dunn J., Haines T., Dow B., **Batchelor F.**, Biddle S., **Duque G.**, Hill K.D.

About the Research: Many research studies evaluate physical activity interventions for older people in the community, however relatively few successfully promote maintenance of physical activity beyond the completion of the intervention. This study aimed to implement and evaluate the effects of sustained engagement in physical activity on mental, social and physical health outcomes through the use of the Seniors Exercise Park physical activity program for older people (the ENJOY project).

[Link to Publication](#)

9. Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. *Nature*, Volume 587, Issue 7834, 19 November 2020, Pages 460-465

Moreira L.M., Takawale A., Hulsurkar M., Menassa D.A., Antanaviciute A., Lahiri S.K., Mehta N., Evans N., Psarros C., Robinson P., Sparrow A.J., Gillis M.-A., Ashley N., Naud P., Barallobre-Barreiro J., Theofilatos K., Lee A., Norris M., Clarke M.V., Russell P.K., Casadei B., Bhattacharya S., **Zajac J.D.**, Davey R.A., Sirois M., Mead A., Simmons A., Mayr M., Sayeed R., Krasopoulos G., Redwood C., Channon K.M., Tardif J.-C., Wehrens X.H.T., Nattel S., Reilly S.

[Link to Publication](#)

10. Future Directions for Dementia Risk Reduction and Prevention Research: An International Research Network on Dementia Prevention Consensus. *Journal of Alzheimer's Disease*, Volume 78, Issue 1, 2020, Pages 3-12.

Anstey K.J., Peters R., Zheng L., Barnes D.E., Brayne C., Brodaty H., Chalmers J., Clare L., Dixon R.A., Dodge H., **Lautenschlager N.T.**, Middleton L.E., Qiu C., Rees G., Shahar S., Yaffe K.

About the Research: In the past decade a large body of evidence has accumulated on risk factors for dementia, primarily from Europe and North America. Drawing on recent integrative reviews and a consensus workshop, the International Research Network on Dementia Prevention developed a consensus statement on priorities for future research.

[Link to Publication](#)

11. In vivo microstructural heterogeneity of white matter lesions in healthy elderly and Alzheimer's disease participants using tissue compositional analysis of diffusion MRI data. *NeuroImage: Clinical, Volume 28, January 2020, Article number 102479.*

Mito R., Dhollander T., Xia Y., Raffelt D., Salvado O., Churilov L., Rowe C.C., **Brodthmann A.**, Villemagne V.L., Connelly A.

About the Research: White matter hyperintensities (WMH) are regions of high signal intensity typically identified on fluid attenuated inversion recovery (FLAIR). Although commonly observed in elderly individuals, they are more prevalent in Alzheimer's disease (AD) patients. Given that WMH appear relatively homogeneous on FLAIR, they are commonly partitioned into location- or distance-based classes when investigating their relevance to disease. Since pathology indicates that such lesions are often heterogeneous, probing their microstructure in vivo may provide greater insight than relying on such arbitrary classification schemes. In this study, we investigated WMH in vivo using an advanced diffusion MRI method known as single-shell 3-tissue constrained spherical deconvolution (SS3T-CSD), which models white matter microstructure while accounting for grey matter and CSF compartments

[Link to Publication](#)

12. Concordant peripheral lipidome signatures in two large clinical studies of Alzheimer's disease. *Nature Communications, Volume 11, Issue 1, December 2020, Article number 5698.*

Huynh K., Lim W.L.F., Giles C., Jayawardana K.S., Salim A., Mellett N.A., Smith A.A.T., Olshansky G., Drew B.G., Chatterjee P., Martins I., Laws S.M., **Bush A.I.**, Rowe C.C., Villemagne V.L., Ames D., Masters C.L., Arnold M., Nho K., Saykin A.J., Baillie R., Han X., Kaddurah-Daouk R., Martins R.N., Meikle P.J.

About the Research: Changes to lipid metabolism are tightly associated with the onset and pathology of Alzheimer's disease (AD). Lipids are complex molecules comprising many isomeric and isobaric species, necessitating detailed analysis to enable interpretation of biological significance. Our expanded targeted lipidomics platform (569 species across 32 classes) allows for detailed lipid separation and characterisation. In this study we examined peripheral samples of two cohorts (AIBL, n = 1112 and ADNI, n = 800).

[Link to Publication](#)

13. Management of menopausal symptoms and ovarian function preservation in women with gynecological cancer. *International Journal of Gynecological Cancer*, 2020. Published online November 2020.

Brennan A., Brennan D., Rees M., **Hickey M.**

About the Research: Gynecological cancers affect a growing number of women globally, with approximately 1.3 million women diagnosed in 2018. Menopausal symptoms are a significant health concern after treatment for gynecological cancers and may result from oncologic treatments such as premenopausal bilateral oophorectomy, ovarian failure associated with chemotherapy or radiotherapy, and anti-estrogenic effects of maintenance endocrine therapy. Additionally, with the growing availability of testing for pathogenic gene variants such as BRCA1/2 and Lynch syndrome, there is an increasing number of women undergoing risk-reducing oophorectomy, which in most cases will be before age 45 years and will induce surgical menopause. Not all menopausal symptoms require treatment, but patients with cancer may experience more severe symptoms compared with women undergoing natural menopause.

[Link to Publication](#)

14. Intravenous alteplase for stroke with unknown time of onset guided by advanced imaging: systematic review and meta-analysis of individual patient data. *The Lancet*, Volume 396, Issue 10262, 14 November 2020, Pages 1574-1584.

Thomalla G., Boutitie F., Ma H., Koga M., Ringleb P., Schwamm L.H., Wu O., Bendszus M., Bladin C.F., Campbell B.C.V., Cheng B., Churilov L., Ebinger M., Endres M., Fiebach J.B., Fukuda-Doi M., Inoue M., Kleinig T.J., Latour L.L., Lemmens R., Levi C.R., Leys D., Miwa K., Molina C.A., Muir K.W., Nighoghossian N., Parsons M.W., Pedraza S., Schellinger P.D., Schwab S., Simonsen C.Z., Song S.S., Thijs V., Toni D., Hsu C.Y., Wahlgren N., Yamamoto H., Yassi N., Yoshimura S., Warach S., Hacke W., Toyoda K., Donnan G.A., Davis S.M., Gerloff C., Acosta B.R., Aegidius K., Albiker C., Alegiani A., Almendrote M., Alonso A., Althaus K., Amarenco P., Amiri H., Anders B., Aniculaesei A., Appleton J., Arenillas J., Back C., Bähr C., Bardutzky J., Baronnet-Chauvet F., Bathe-Peters R., Bayer-Karpinska A., Becerra J.L., Beck C., Belchí Guillamon O., Benoit A., Berhoune N., Bindila D., Birchenall J., Blanc-Lasserre K., Blanco Gonzales M., Bobinger T., Bodechtel U., Bodiguel E., Bojaryn U., Bonnet L., Bouamra B., Bourgeois P., Breuer L., Breynaert L., Broughton D., Brouns R., Brugirard S., Bruneel B., Buggle F., Cakmak S., Calleja A., Calvet D., Carrera D., Chen H.-C., Cheripelli B., Cho T.-H., Choe C.-U., Choy L., Christensen H., Ciatipis M., Cloud G., Cogež J., Cortijo E., Crozier S., Damgaard D., Dani K., De Coene B., De Hollander I., De Keyser J., De Klippel N., De Maeseneire C., De Smedt A., del Mar Castellanos Rodrigo M., Deltour S., Demeestere J., Derex L., Desfontaines P., Dittrich R., Dixit A., Dobbels L., Domingo V., Dorado L., Druart C., Dupont K.H., Dusart A., Dziewas R., Ebner M., Edjali-Goujon M., Eisele P., El Tawil S., Elhfnawy A., Etxeberria A., Evans N., Fandler S., Fazekas F., Felix S., Fiebach J.B., Fiehler J., Filipov A., Filipski K., Fleischmann R., Foerch C., Ford I., Gaenslen A., Galinovic I., Gancedo E.M., Ganeshan R., García Esperón C., Garrido A., Gattringer T., Geraghty O., Geran R., Gerner S., Godon-Hardy S., Göhler J., Golsari A., Gomis M., Gorriz D., Gramse V., Grau L., Griebel M., Guerrero C., Guertzoglu D., Guettier S., Guiraud V., Gumbinger C., Gunreben I., Haertig F., Hametner C., Hanseeuw B., Hansen A., Hansen J., Harbo T., Harloff A., Harmel P., Häusler K.G., Heinen F., Held V., Hellwig S., Hemelsoet D., Hennerici M., Herm J., Hermans S., Hernández M., Hervas Vicente J., Hjort N., Hobeau C., Hobohm C., Höfner E., Hohenbichler K., Hommel M., Hoppe J., Hornberger E.,

Hoyer C., Huang X., Ipsen N., Isern I., Ispierto L., Iversen H., Jeppesen L., Jimenez M., Jungehülsing J., Jüttler E., Kalladka D., Kallmünzer B., Kar A., Kellert L., Kemmling A., Kessler T., Khan U., Klein M., Kleinschnitz C., Klockziem M., Knops M., Koehler L., Koehrmann M., Kohlfürst H., Kollmar R., Kraft P., Krause T., Kristensen B., Kröber J.M., Kurka N., Ladoux A., Laloux P., Lamy C., Landrault E., Lauer A., Lebely C., Leempoel J., Lees K., Leger A., Legrand L., Li L., Löbbe A.-M., London F., Lopez-cancio E., Lorenz M., Louw S., Lovelock C., Lozano Sánchez M., Lucente G., Lückl J., Luna A., Macha K., Machet A., Mackenrodt D., Madzar D., Majoie C., Männer A., Maqueda V., Marstrand J., Martinez A., Marzina A., Mechthouff L., Meden P., Meersman G., Meier J., Mellerio C., Menn O., Meyer N., Michalski D., Michels P., Michelsen L., Millán Torne M., Minnerup J., Modrau B., Moeller S., Møller A., Morel N., Moreton F., Morin L., Moulin T., Moynihan B., Mueller A.K., Muir K.W., Mulero P., Mundiyanapurath S., Mutzenbach J., Nagel S., Naggara O., Nallasivan A., Navalpotro I., Nave A.H., Nederkoorn P., Neeb L., Neugebauer H., Neumann-Haefelin T., Oberndorfer S., Opherck C., Ooppel L., Oppenheim C., Orthgieß J., Ostergaard L., Paindeville P., Palomeras E., Panitz V., Patel B., Peeters A., Peeters D., Pellisé A., Pelz J., Pereira A., Pérez de la Ossa N., Perry R., Petraza S., Peysson S., Pfeilschifter W., Pichler A., Pierskalla A., Pledl H.-W., Poli S., Pomrehn K., Poulsen M., Prats L., Presas S., Prohaska E., Puetz V., Puig J., Puig Alcántara J., Purruicker J., Quenardelle V., Ramachandran S., Raphaelle S., Raposo N., Reiff T., Remmers M., Renou P., Ribitsch M., Richter H., Ritter M., Ritzenthaler T., Rodier G., Rodriguez-Regent C., Rodríguez-Yáñez M., Roennefarth M., Roffe C., Rosenbaum S., Rosso C., Röther J., Rozanski M., Ruiz de Morales N., Russo F., Rutgers M., Sagnier S., Samson Y., Sánchez J., Sauer T., Schäfer J.H., Schieber S., Schill J., Schlak D., Schlemm L., Schmidt S., Schonewille W., Schröder J., Schulz A., Schurig J., Schwarting S., Schwarz A., Schwarzbach C., Seidel M., Seiler A., Sembill J., Serena Leal J., Shetty A., Sibon I., Simonsen C.Z., Singer O., Sivagnanaratham A., Smets I., Smith C., Soors P., Sprigg N., Spruegel M., Stark D., Steinert S., Stösser S., Stuermlinger M., Swinnen B., Tamazyán R., Tembl J., Terceno Izaga M., Touze E., Truelsen T., Turc G., Turine G., Tütüncü S., Tyrell P., Ustrell X., Vadot W., Vallet A.-E., Vallet P., van den Berg L., van den Berg S., van Eendenburg C., Van Hooff R.-J., van Sloten I., Vanacker P., Vancaester E., Vanderdonck P., Vandermeeren Y., Vanhee F., Veltkamp R., Vestergaard K., Viguier A., Vilas D., Villringer K., Voget D., von Schrader J., von Weitzel P., Warburton E., Weber C., Weber J., Wegscheider K., Wegscheider M., Weimar C., Weinstich K., Weise C., Weise G., Willems C., Winder K., Wittayer M., Wolf M., Wolf M., Wolff V., Wollboldt C., Wollenweber F., Wouters A., Yalo B., Yger M., Younan N., Yperzeele L., Zegarac V., Zeiner P., Ziemann U., Zonneveld T., Zuber M., Akutsu T., Aoki J., Arakawa S., Doijiri R., Egashira Y., Enomoto Y., Furui E., Furuta K., Gotoh S., Hamasaki T., Hasegawa Y., Hirano T., Homma K., Ichijyo M., Ide T., Igarashi S., Iguchi Y., Ihara M., Ikenouchi H., Inoue T., Itabashi R., Ito Y., Iwama T., Kamiyama K., Kamiyoshi S., Kanai H., Kanematsu Y., Kanzawa T., Kimura K., Kitayama J., Kitazono T., Kondo R., Kudo K., Kusumi M., Kuwahara K., Matsumoto S., Matsuoka H., Mihara B., Minematsu K., Miura K., Morita N., Mouri W., Murata K., Nagakane Y., Nakase T., Ohara H., Ohara N., Ohnishi H., Ohta H., Ohtaki M., Ohtani R., Ohtsuki T., Ohyama H., Okada T., Okada Y., Osaki M., Sakai N., Sanbongi Y., Sasaki N., Sasaki M., Sato S., Seki K., Shimizu W., Shiokawa Y., Sozu T., Suzuki J., Suzuki R., Takagi Y., Takizawa S., Tanahashi N., Tanaka E., Tanaka R., Tateishi Y., Terada T., Terasaki T., Todo K., Tokunaga A., Tsujino A., Ueda T., Uesaka Y., Uotani M., Urabe T., Watanabe M., Yagita Y., Yakushiji Y., Yasui K., Yonehara T., Yoshimura S., Aarnio K., Alemseged F., Anderson C., Ang T., Archer M.L., Attia J., Bailey P., Balabanski A., Barber A., Barber P.A., Bernhardt J., Bivard A., Blacker D., Bladin C.F., **Brodthmann A.**, Cadilhac D., Campbell B.C.V., Carey L., Celestino S., Chan L., Chang W.H., Changl A., Chen C.H., Chen C.-I., Chen H.F., Chen T.C., Chen W.H., Chen Y.Y., Cheng C.A., Cheong E., Chiou Y.W., Choi P.M., Chu H.J., Chuang C.S., Chung T.C., Churilov L., Clissold B., Connelly A., Coote S., Coulton B., Cowley E., Cranefield J., Curtze S., D'Este C., Davis S.M., Day S., Desmond P.M., Dewey H.M., Ding C., Donnan G.A., Drew R., Eirola S., Field D., Frost T., Garcia-Esperon C., George K., Gerraty R., Grimley R., Guo Y.C., Hankey G., Harvey J., Ho S.C., Hogan K., Howells D., Hsiao P.M., Hsu C.H., Hsu C.T., Hsu C.-S., Hsu J.P., Hsu Y.D., Hsu Y.T., Hu C.J., Huang C.C., Huang H.Y., Huang M.Y., Huang S.C., Huang W.S., Jackson D., Jeng J.S., Jiang S.K., Kaauwai L., Kasari O., King J., Kleinig T.J., Koivu M., Kolbe J., Krause M., Kuan C.W., Kung W.L., Kyndt C., Lau C.L., Lee A., Lee C.Y., Lee J.T., Lee

Y., Lee Y.C., Levi C., Levi C.R., Lien L.M., Lim J.C., Lin C.C., Lin C.H., Lin C.M., Lin D., Liu C.H., Liu J., Lo Y.C., Loh P.S., Low E., Lu C.H., Lu C.J., Lu M.K., Ly J., Ma H., Macaulay L., Macdonnell R., Mackey E., Macleod M., Mahadevan J., Maxwell V., McCoy R., McDonald A., McModie S., Meretoja A., Mishra S., Mitchell P.J., Miteff F., Moore A., Muller C., Ng F., Ng F.C., Ng J.-L., O'Brian W., O'Collins V., Oxley T.J., Parsons M.W., Patel S., Peng G.S., Pesavento L., Phan T., Rodrigues E., Ross Z., Sabet A., Sallaberger M., Salvaris P., Shah D., Sharma G., Sibolt G., Simpson M., Singhal S., Snow B., Spratt N., Stark R., Sturm J., Sun M.C., Sun Y., Sung P.S., Sung Y.F., Suzuki M., Tan M., Tang S.C., Tatlisumak T., Thijs V., Tainen M., Tsai C.H., Tsai C.K., Tsai C.L., Tsai H.T., Tsai L.K., Tseng C.H., Tseng L.T., Tsoleridis J., Tu H., Tu H.T.-H., Vallat W., Virta J., Wang W.C., Wang Y.T., Waters M., Weir L., Wijeratne T., Williams C., Wilson W., Wong A.A., Wong K., Wu T.Y., Wu Y.H., Yan B., Yang F.C., Yang Y.W., Yassi N., Yeh H.L., Yeh J.H., Yeh S.J., Yen C.H., Young D., Ysai C.L., Zhang W.W., Zhao H., Zhao L., Althaus-Knaurer K., Berrouschot J., Bluhmki E., Bovi P., Chatellier G., Cove L., Davis S., Dixit A., Donnan G., Ehrenkrona C., Eschenfelder C., Fatar M., Francisco Arenillas J., Gruber F., Kala L., Kapeller P., Kaste M., Kessler C., Köhrmann M., Laage R., Lees K.R., Luna Rodriguez A., Mas J.-L., Mikulik R., Molina C., Muddegowda G., Muir K., Niederkorn K., Nuñez X., Schellinger P., Serena J., Sobesky J., Steiner T., Svenson A.-S., von Kummer R., Wardlaw J., Betensky R.A., Boulouis G., Carandang R.A., Copen W.A., Cougo P., Cutting S., Drake K., Ford A.L., Hallenbeck J., Harris G.J., Hoesch R., Hsia A., Kase C., Latour L., Lev M.H., Muzikansky A., Nagaraja N., Schwamm L.H., Searls E., Song S.S., Starkman S., Yoo A.J., Zand R.

About the Research: Patients who have had a stroke with unknown time of onset have been previously excluded from thrombolysis. We aimed to establish whether intravenous alteplase is safe and effective in such patients when salvageable tissue has been identified with imaging biomarkers.

[Link to Publication](#)

15. Inadequate energy and protein intake in geriatric outpatients with mobility problems. *Nutrition Research, 2020. Published online November 2020.*

Yeung S.S.Y., Trappenburg M.C., Meskers C.G.M., **Maier A.B.**, Reijnders E.M.

About the Research: To individualize nutritional interventions for the prevention and treatment of malnutrition and sarcopenia, it is required to understand the nutritional needs of older adults. This study explores the nutritional needs of geriatric outpatients. We hypothesized that inadequate energy and protein intake is common in geriatric outpatients.

[Link to Publication](#)

16. A study protocol for a phase II randomised, double-blind, placebo-controlled trial of sodium selenate as a disease-modifying treatment for behavioural variant frontotemporal dementia.

BMJ Open, Volume 10, Issue 11, 16 November 2020, Article number 040100.

Vivash L., Malpas C.B., Churilov L., Walterfang M., **Brodtmann A.**, Piguet O., Ahmed R.M., **Bush A.I.**, Hovens C.M., Kalincik T., Darby D., Velakoulis D., O'Brien T.J.

About the Research: Behavioural variant frontotemporal dementia (bvFTD) is a neurodegenerative disorder often neuropathologically associated with the accumulation of abnormally hyperphosphorylated tau, for which there is currently no disease-modifying treatment. Previous work by our group has shown sodium selenate upregulates the activity of protein phosphatase 2 in the brain, increasing the rate of tau dephosphorylation. The objective of this study is to evaluate the efficacy and safety of sodium selenate as a disease-modifying treatment for bvFTD.

[Link to Publication](#)

17. Are computed tomography-based measures of specific abdominal muscle groups predictive of adverse outcomes in older cancer patients? Heliyon, Volume 6, Issue 11, November 2020, Article number e05437.

Looijaard S.M.L.M., **Maier A.B.**, Voskuilen A.F., Van Zanten T., Bouman D.E., Klaase J.M., Meskers C.G.M.

About the Research: It is unknown whether computed tomography (CT)-based total abdominal muscle measures are representative of specific abdominal muscle groups and whether analysis of specific abdominal muscle groups are predictive of the risk of adverse outcomes in older cancer patients.

[Link to Publication](#)

18. A Multidisciplinary, Community-Based Program to Reduce Unplanned Hospital Admissions.

Journal of the American Medical Directors Association, 2020. Published online November 2020.

Wan C.S., Mitchell J., **Maier A.B.**

About the Research: To evaluate the effect of Hospital Admission Risk Program (HARP) on unplanned hospitalization, bed days, and mortality of enrolled individuals and to evaluate the cost-effectiveness of HARP.

[Link to Publication](#)

19. Understanding typical support practice for students who are deaf or hard of hearing: Perspectives from teachers of the deaf in Australia. *Deafness and Education International*, 2020. Published online November 2020.

Dettman S., Chia Y., Budhiraja S., Graham L., **Sarant J.**, Barr C., Dowell R.

About the Research: While there is a growing level of demand for accountability and documentation of services provided to students who are Deaf or Hard of Hearing (DHH), there is a paucity of evidence on the nature of such support; who (personnel), what (content), and how (delivery). This study describes Teacher of the Deaf (ToD) perspectives on current classroom student support practices across a range of contemporary service delivery models in Victoria, Australia

[Link to Publication](#)

20. From phone use to speeding and driving under influence: Identifying clusters of driving risk behaviors as an opportunity for targeted interventions. *Journal of Psychiatric Research*, 2020. Published online November 2020.

Rabelo-da-Ponte F.D., Scherer J.N., Roglio V., Borges E.N., Galland F., **Sousa T.**, Passos I.C., von Diemen L., Kessler F., Pechansky F.

About the Research: Identifying the profile of risky behaviors among drivers is central to propose effective interventions. Due to the multidimensional and overlapping aspects of risky driving behaviors, cluster analysis can provide additional insights in order to identify specific subgroups of risk. This study aimed to identify clusters of driving risk behavior (DRB) among car drivers, and to verify intra-cluster differences concerning clinical and sociodemographic variables.

[Link to Publication](#)

21. Adolescent alcohol, nuts, and fiber: combined effects on benign breast disease risk in young women. *npj Breast Cancer*, Volume 6, Issue 1, December 2020, Article number 61.

Berkey C.S., Tamimi R.M., Willett W.C., Rosner B., **Hickey M.**, Toriola A.T., Frazier A.L., Colditz G.A.

About the Research: Adolescent drinking is associated with higher risks of proliferative benign breast disease (BBD) and invasive breast cancer (BC). Furthermore, adolescent nut and fiber consumptions are associated with lower risks of benign lesions and premenopausal BC. We hypothesize that diet (nuts, fiber) may mitigate the elevated BBD risk associated with alcohol.

[Link to Publication](#)